LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.193	386	392	407	rBV	661335	1066510	18.33%	1.718%
2	6.763	651	659	672	rBV	679756	1183753	20.34%	1.907%
3	6.875	672	678	689	rVB	49781	89936	1.55%	0.145%
4	7.569	786	796	807	rBV	1026497	1627813	27.98%	2.622%
5	7.887	842	850	858	rBV	613827	983732	16.91%	1.585%
6	8.716	979	991	1005	rBV	376959	685524	11.78%	1.104%
7	10.340	1259	1267	1274	rBV	1378392	2349237	40.37%	3.784%
8	12.016	1544	1552	1561	rBV	34096	64062	1.10%	0.103%
9	12.834	1685	1691	1712	rVB	1189443	1775339	30.51%	2.860%
10	13.134	1737	1742	1750	rBV	118097	190449	3.27%	0.307%
11	13.540	1806	1811	1816	rBV	40395	65253	1.12%	0.105%
12	13.681	1826	1835	1842	rBV2	190947	318734	5.48%	0.513%
13	13.934	1872	1878	1889	rBV	261494	432385	7.43%	0.696%
14	14.216	1920	1926	1933	rBV	2011429	3133618	53.86%	5.047%
15	14.281	1933	1937	1946	rVB	107532	165311	2.84%	0.266%
16	14.622	1988	1995	2004	rBV2	80978	157666	2.71%	0.254%
17	14.845	2026	2033	2038	rBV4	39176	90965	1.56%	0.147%
18	15.098	2072	2076	2085	rVB2	52335	109746	1.89%	0.177%
19	15.275	2101	2106	2113	rBV	161594	268569	4.62%	0.433%
20	15.575	2153	2157	2161	rBV	38673	65787	1.13%	0.106%
21	15.716	2174	2181	2191	rVB	861569	1306290	22.45%	2.104%
22	16.339	2283	2287	2293	rVB2	41931	66989	1.15%	0.108%
23	16.639	2334	2338	2347	rVB5	41616	81719	1.40%	0.132%
24	16.792	2358	2364	2368	rVV2	84052	166172	2.86%	0.268%
25	16.981	2390	2396	2399	rBV	2480174	3642172	62.60%	5.867%
26	17.022	2399	2403	2409	rVV	1239157	1758477	30.22%	2.832%
27	17.110	2413	2418	2424	rVB	549831	769168	13.22%	1.239%
28	17.175	2425	2429	2436	rBV3	56028	107350	1.84%	0.173%
29	17.386	2461	2465	2470	rBV	76701	114306	1.96%	0.184%
30	17.516	2483	2487	2491	rVV2	74676	104115	1.79%	0.168%
31	17.563	2492	2495	2499	rVB	66767	88012	1.51%	0.142%
32	17.857	2540	2545	2549	rBV	271340	376071	6.46%	0.606%
33	17.904	2549	2553	2560	rVB	381447	526216	9.04%	0.848%
34	17.981	2562	2566	2570	rVV	180988	247783	4.26%	0.399%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	18.045	2571	2577	2581	rVV2	558973	986834	16.96%	1.590%
36	18.081	2581	2583	2591	rVB2	214038	267221	4.59%	0.430%
37	18.198	2600	2603	2607	rVV2	90118	106455	1.83%	0.171%
38	18.245	2608	2611	2615	rVB2	63363	79383	1.36%	0.128%
39	18.345	2624	2628	2632	rBV	181220	236359	4.06%	0.381%
40	18.386	2632	2635	2641	rVB4	100422	165716	2.85%	0.267%
41	18.557	2661	2664	2666	rBV2	61644	72657	1.25%	0.117%
42	18.586	2667	2669	2674	rVV	107547	143190	2.46%	0.231%
43	18.639	2674	2678	2681	rVV2	202929	290168	4.99%	0.467%
44	18.675	2681	2684	2688	rVB2	125180	155002	2.66%	0.250%
45	18.751	2693	2697	2702	rVV	331397	538297	9.25%	0.867%
46	18.816	2702	2708	2716	rVB4	314110	939276	16.14%	1.513%
47	18.886	2716	2720	2728	rBV2	201060	354232	6.09%	0.571%
48	19.004	2735	2740	2746	rBV	3008282	4104864	70.55%	6.612%
49	19.151	2762	2765	2769	rBV	148339	202271	3.48%	0.326%
50	19.245	2778	2781	2786	rBV3	91001	140622	2.42%	0.227%
51	19.357	2792	2800	2809	rBV	2890142	4791943	82.36%	7.719%
52	19.445	2810	2815	2820	rVB2	174054	345165	5.93%	0.556%
53	19.539	2827	2831	2832	rBV2	163429	209478	3.60%	0.337%
54	19.569	2832	2836	2840	rVB	1944217	2269892	39.01%	3.656%
55	19.680	2851	2855	2862	rBV3	234875	476689	8.19%	0.768%
56	19.816	2874	2878	2880	rBV4	197163	313756	5.39%	0.505%
57	19.845	2880	2883	2888	rVB	554462	728398	12.52%	1.173%
58	19.898	2889	2892	2896	rBV3	126286	175061	3.01%	0.282%
59	19.945	2896	2900	2904	rVB	415374	475942	8.18%	0.767%
60	19.998	2905	2909	2914	rBV2	425721	566124	9.73%	0.912%
61	20.133	2929	2932	2936	rBV	262117	312942	5.38%	0.504%
62	20.180	2937	2940	2944	rVB	284890	337686	5.80%	0.544%
63	20.380	2972	2974	2979	rBV4	113353	150845	2.59%	0.243%
64	20.580	3005	3008	3015	rVB	210569	335636	5.77%	0.541%
65	20.775	3039	3041	3044	rVB	235034	231927	3.99%	0.374%
66	20.827	3045	3050	3054	rBV3	354530	668197	11.48%	1.076%
67	21.086	3087	3094	3098	rBV2	3066517	5818558	100.00%	9.372%
68	21.122	3098	3100	3109	rVB	1410811	1666233	28.64%	2.684%
69	21.239	3117	3120	3122	rBV	226236	284315	4.89%	0.458%
70	22.627	3351	3356	3372	rVB	1123060	3299897	56.71%	5.315%
71	23.092	3431	3435	3444	rVB	680742	1208932	20.78%	1.947%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	23.186	3446	3451	3460	rVB	1044381	1970835	33.87%	3.175%
73	23.280	3462	3467	3473	rBV2	1335606	2482630	42.67%	3.999%

Sum of corrected areas: 62082857

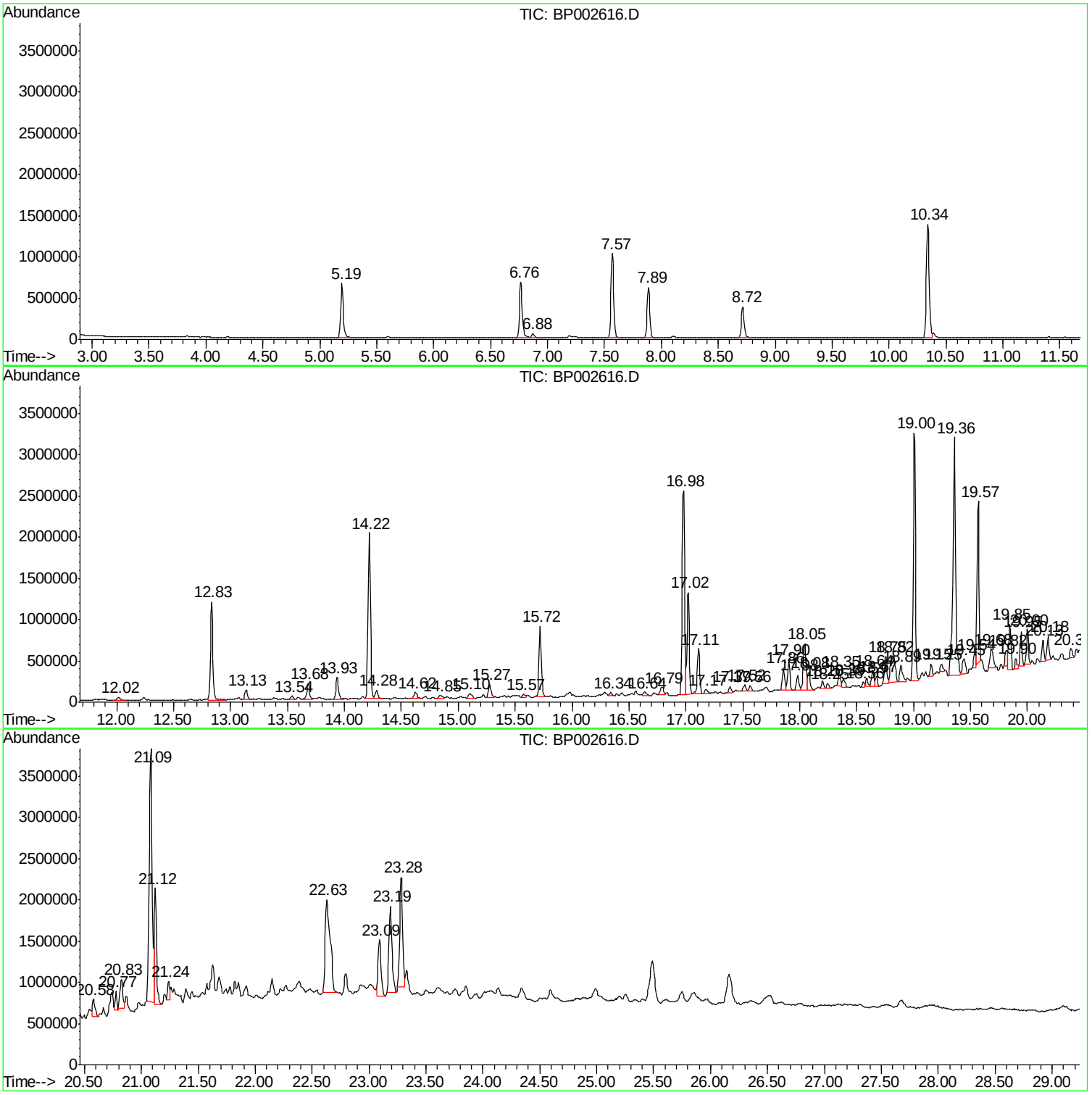
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

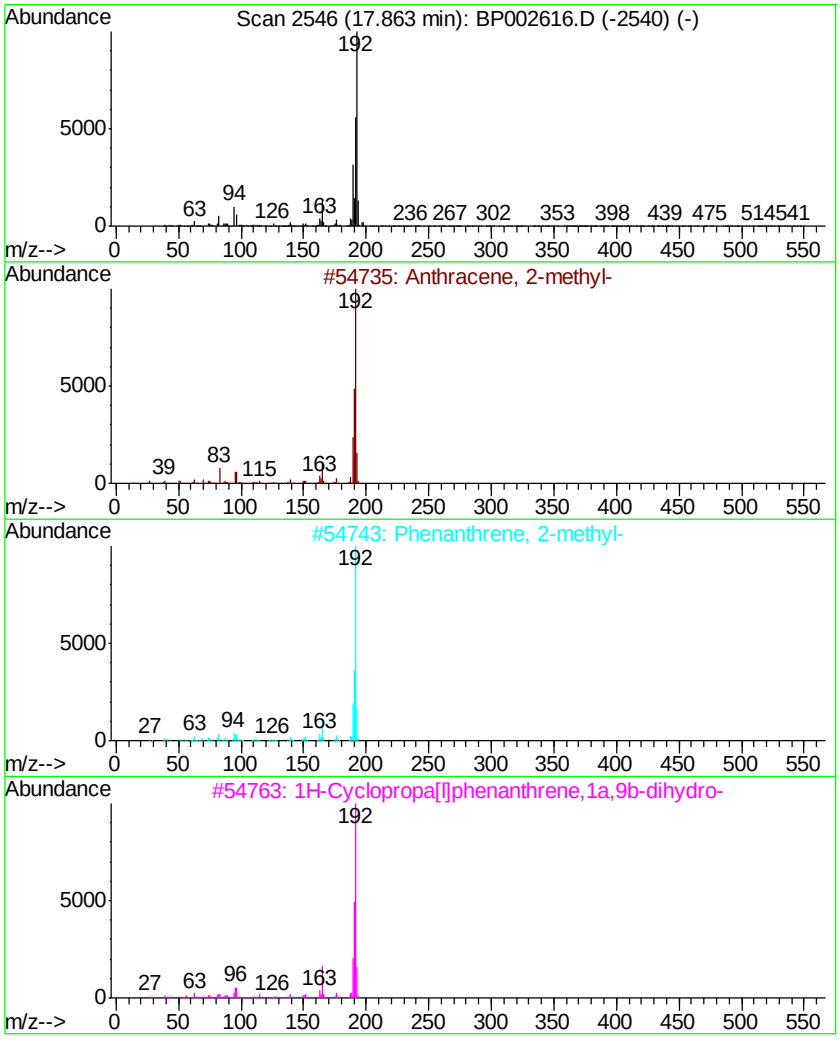
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

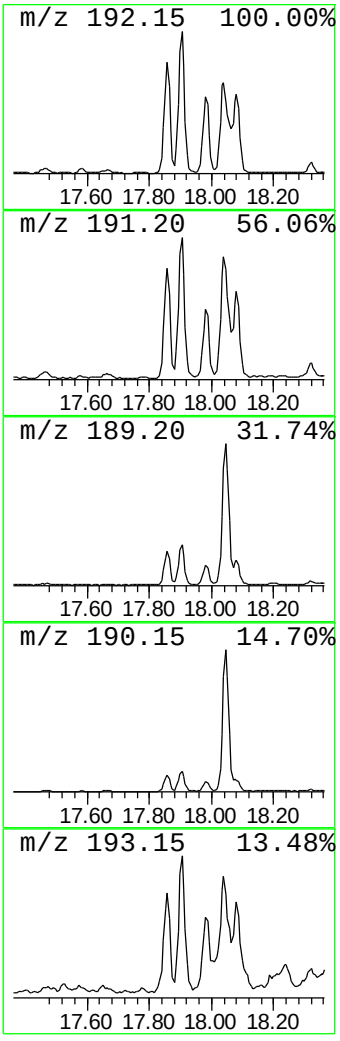
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	2.07 ng	376071	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

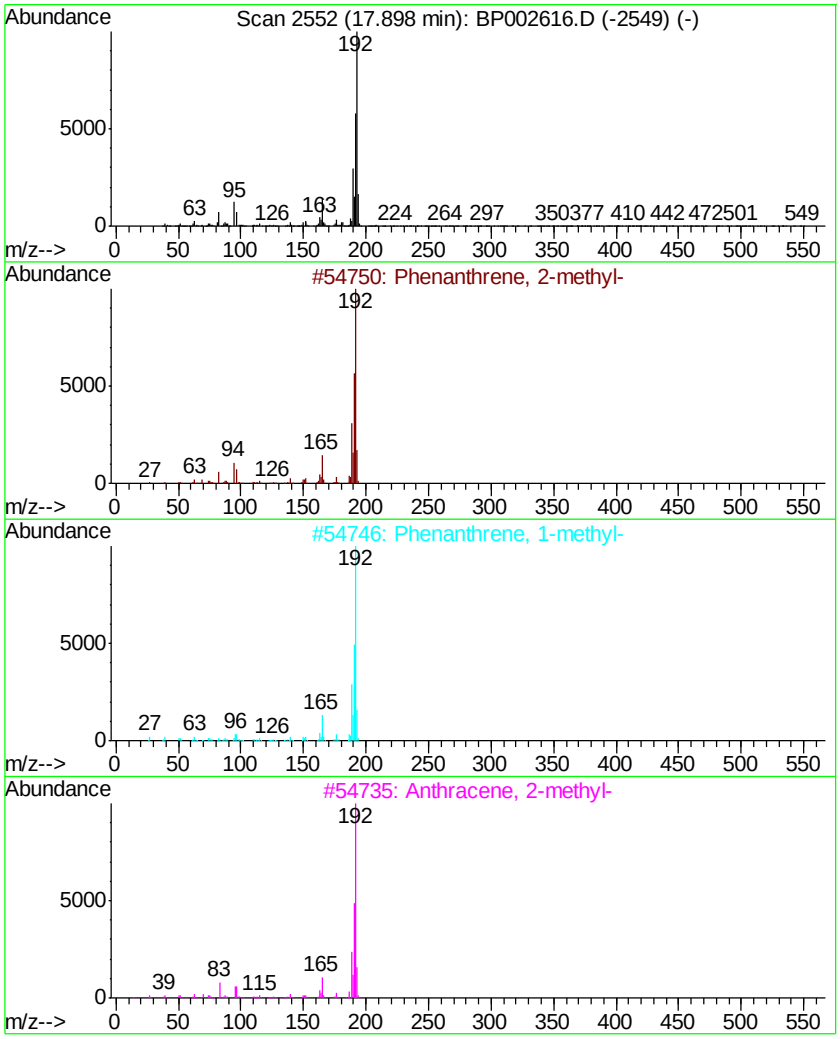
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

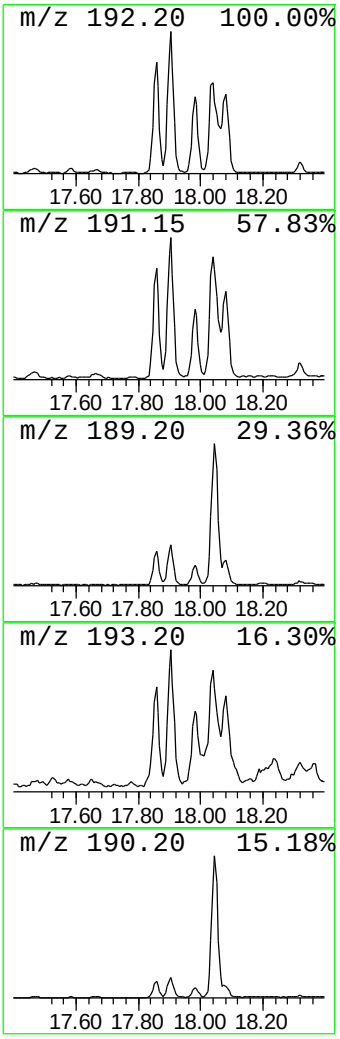
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.90	2.89 ng	526216	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

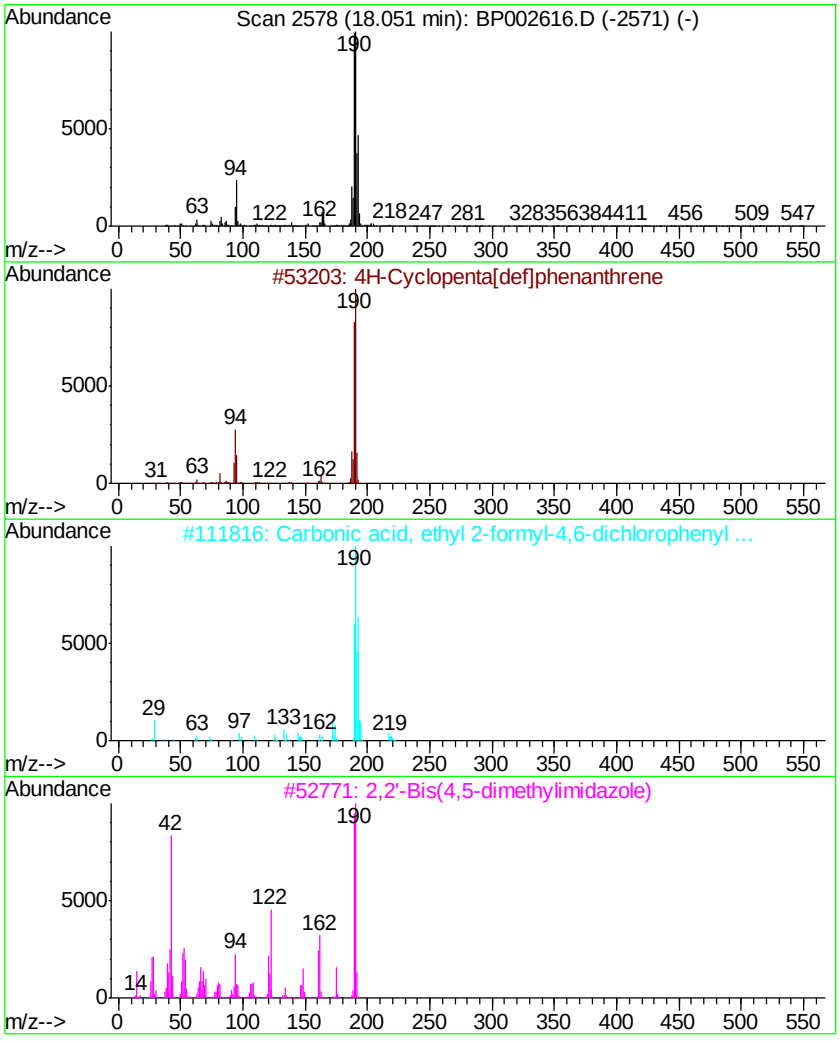
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

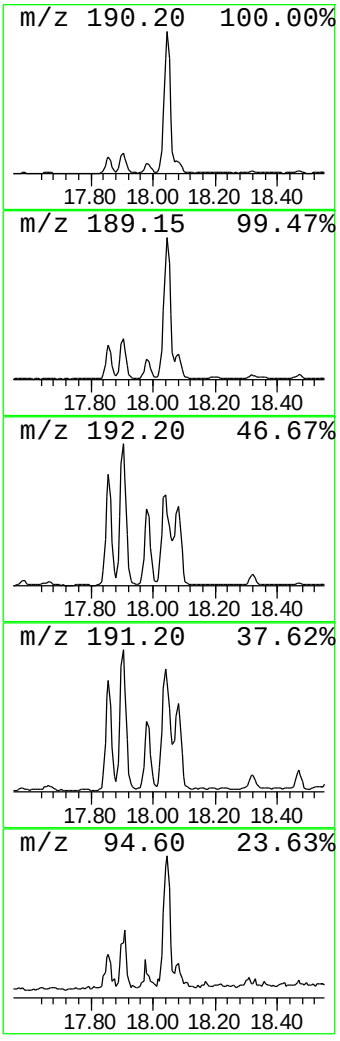
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	5.42 ng	986834	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
5	1,1'-Biphenyl, 4,4'-difluoro-	190	C12H8F2	000398-23-2	23





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

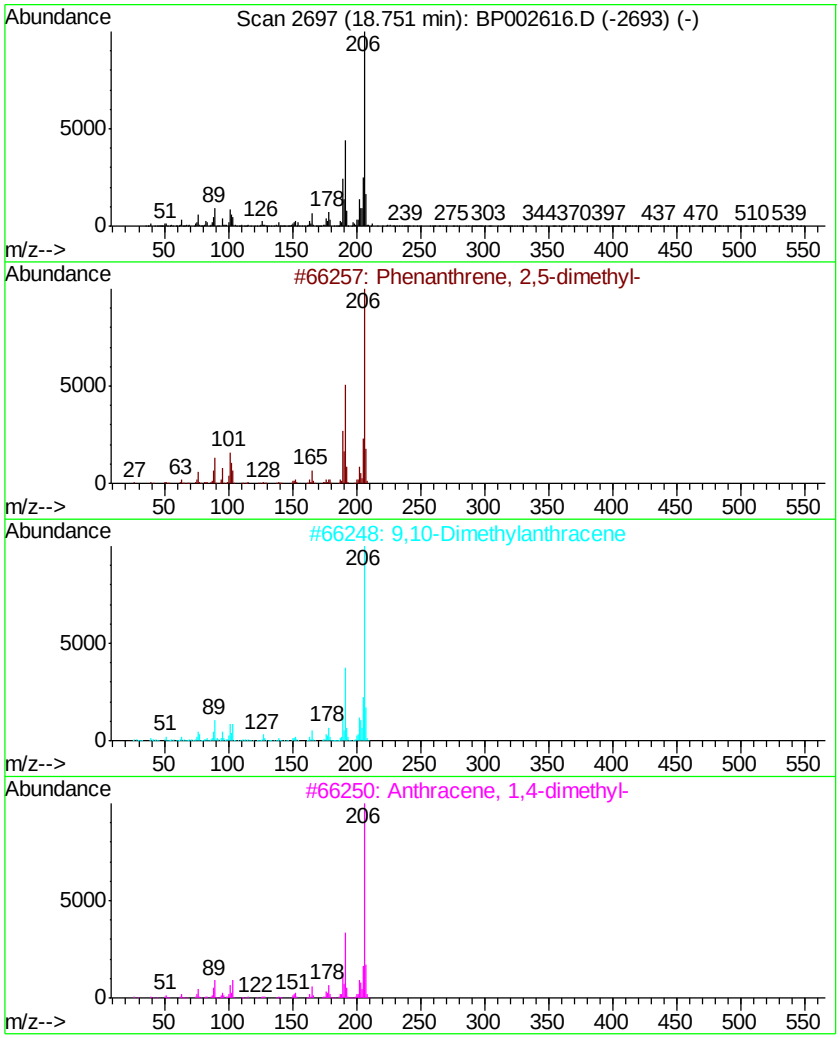
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

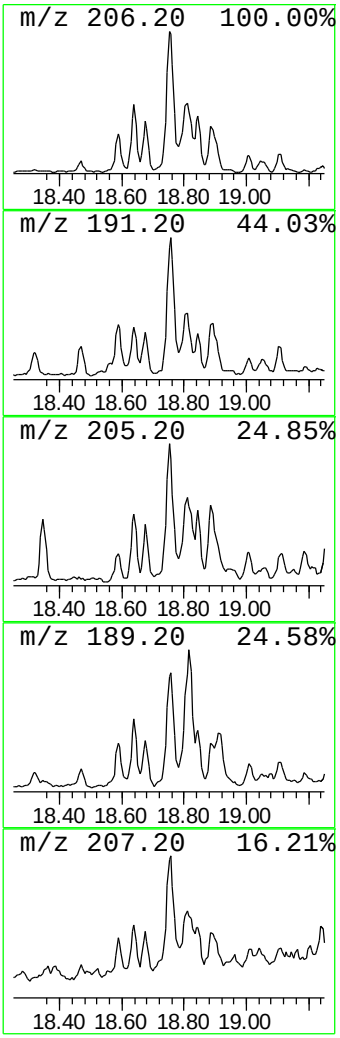
****

Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	2.96 ng	538297	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

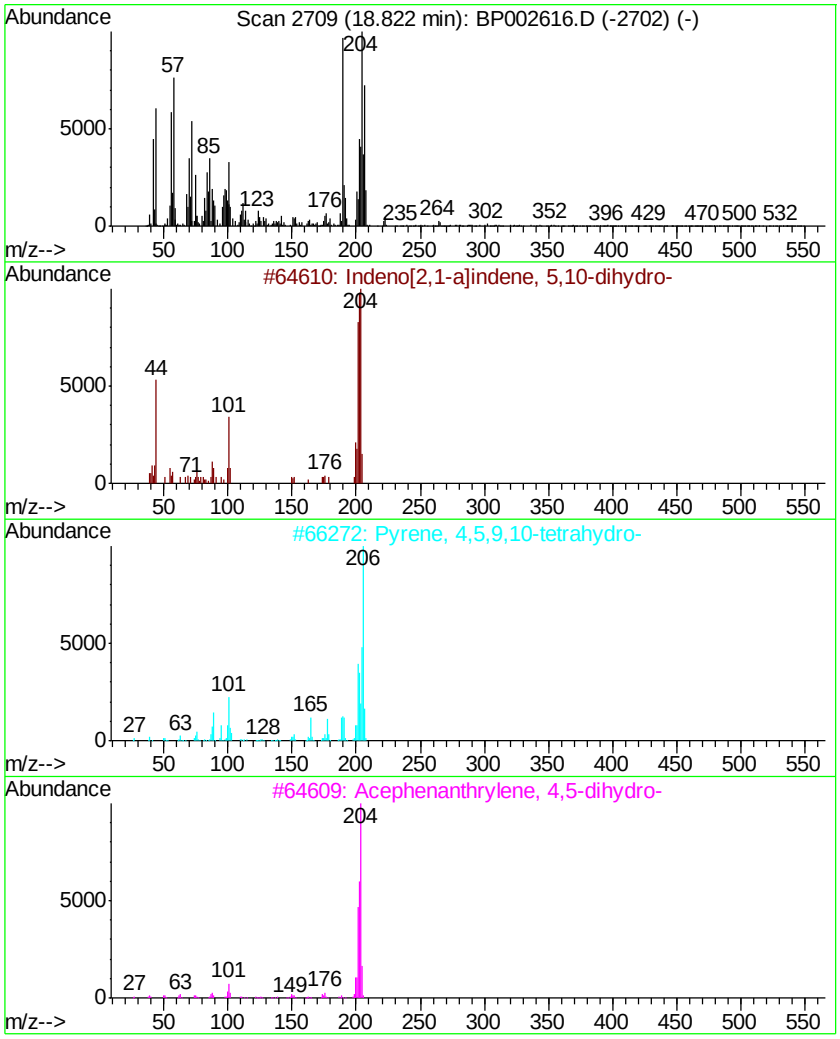
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

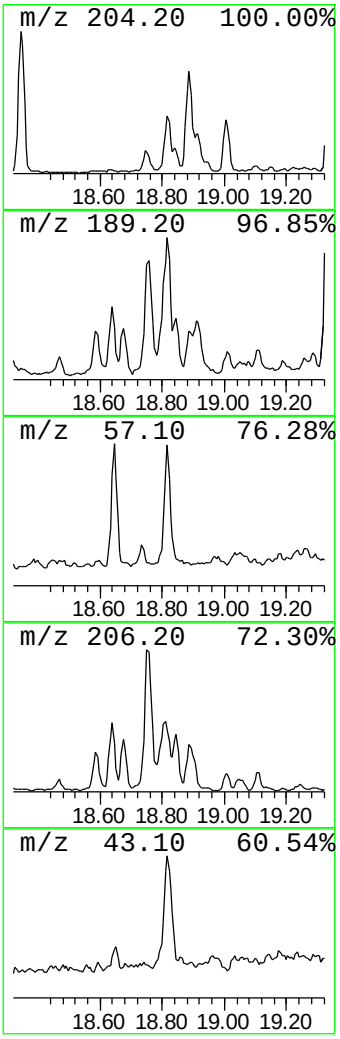
****

Peak Number 7 unknown18.82 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	5.16 ng	939276	Phenanthrene-d10	16.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	45
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
3	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	27





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

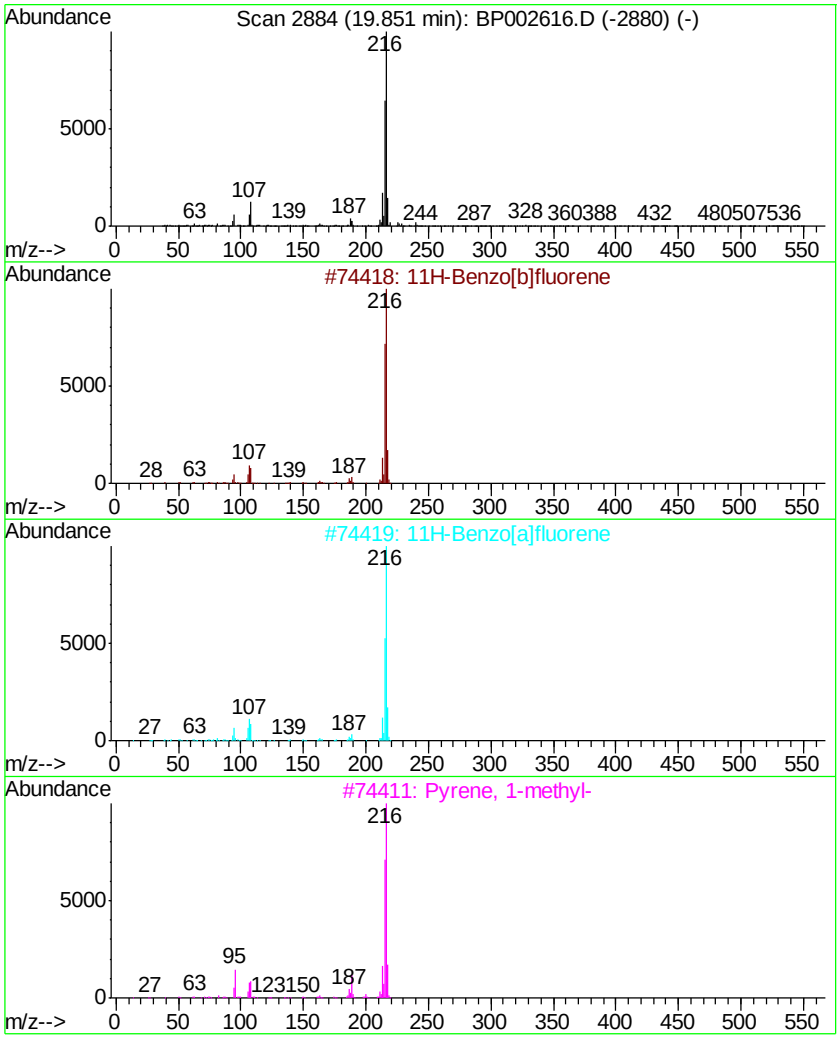
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

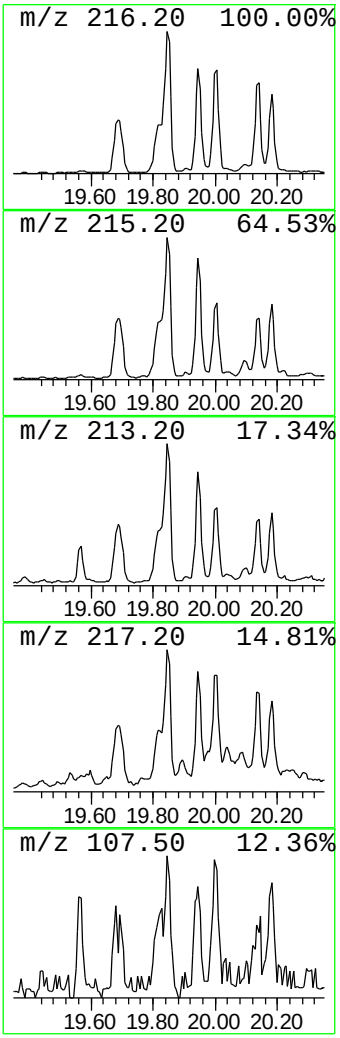
****

Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.85	2.50 ng	728398	Chrysene-d12	21.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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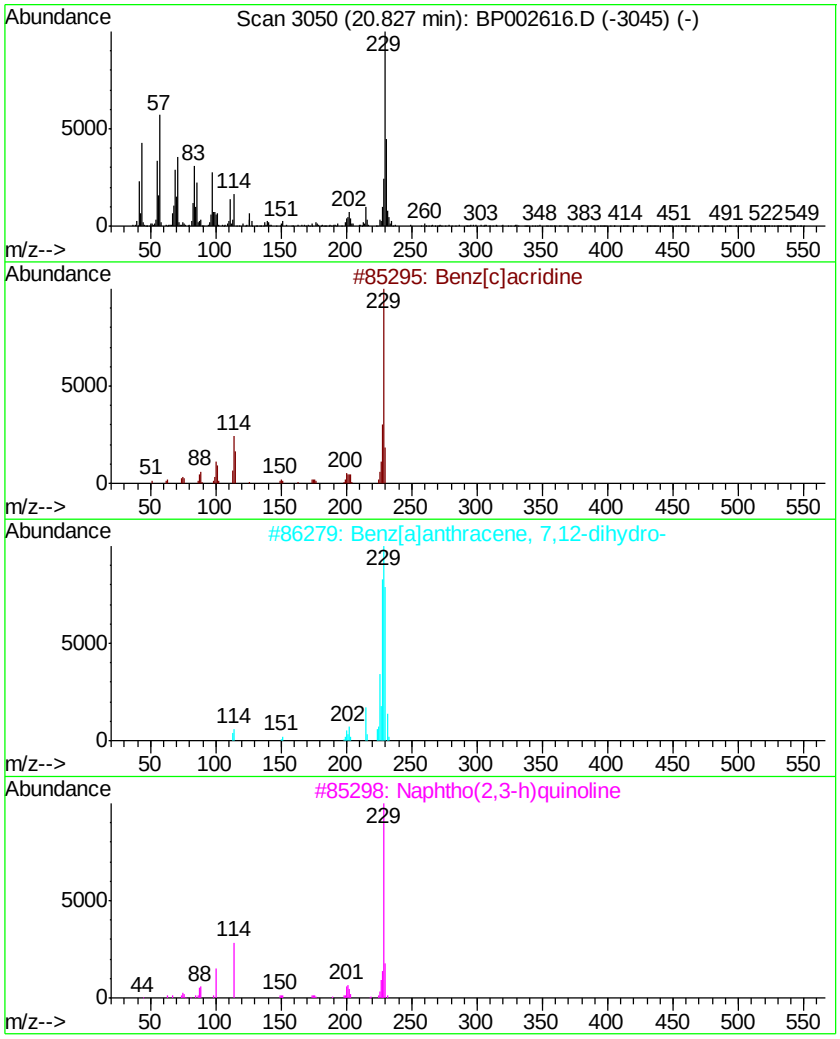
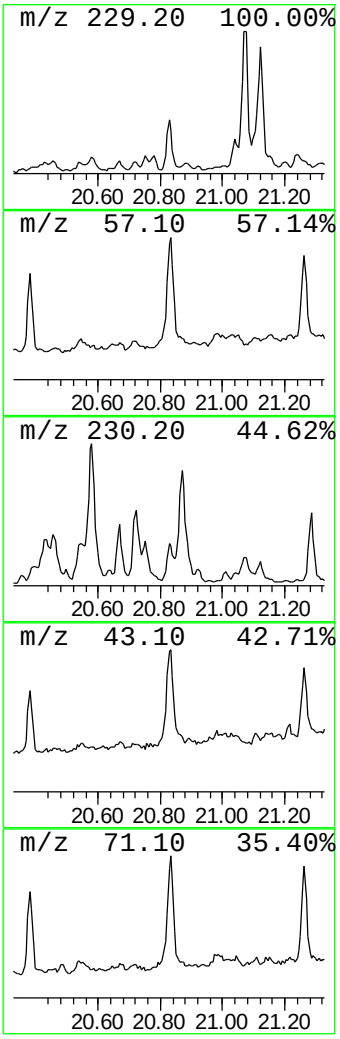
Peak Number 9 Benz[c]acridine Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.83	2.30 ng	668197	Chrysene-d12	21.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	70
2	Benz[a]anthracene, 7,12-dihydro-	230	C18H14	016434-59-6	46
3	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	43
4	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	43
5	Benzo(a)acridine	229	C17H11N	000225-11-6	41





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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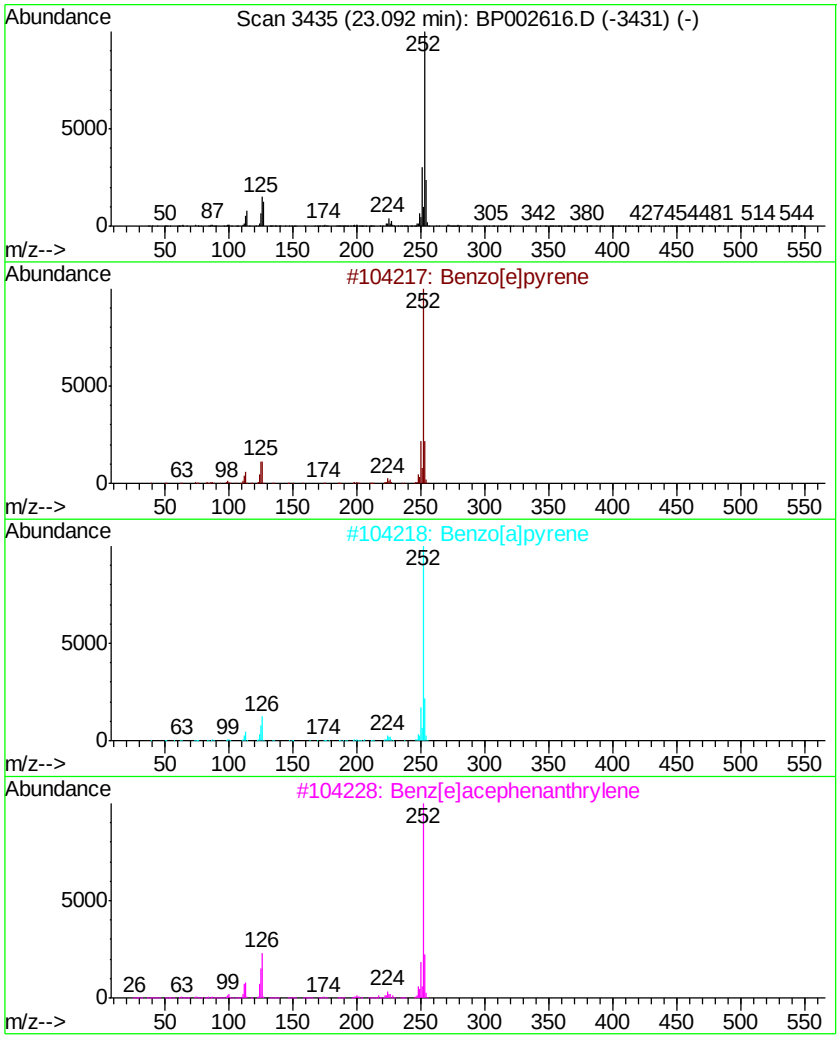
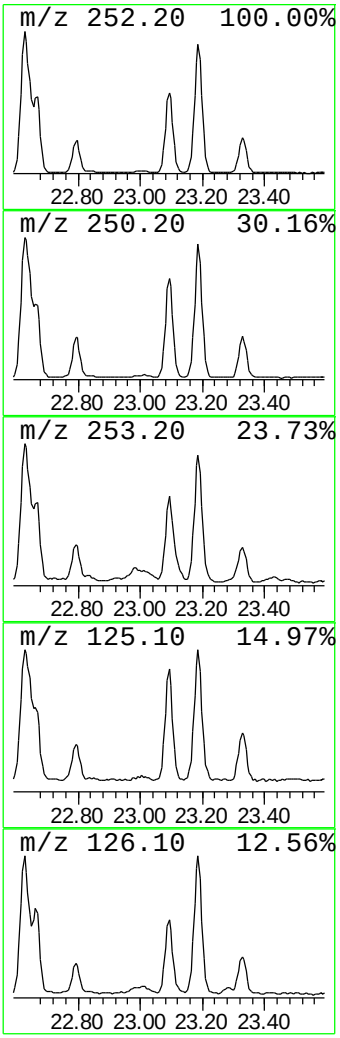
Peak Number 10 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.09	9.74 ng	1208930	Perylene-d12	23.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP070120\
Data File : BP002616.D
Acq On : 01 Jul 2020 21:54
Operator : CG/JU
Sample : L2815-16 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : OR-03-062920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP062920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Anthracene, 2-met...	17.86	2.1	ng	376071	4	16.98	3642170	20.0
Phenanthrene, 2-m...	17.90	2.9	ng	526216	4	16.98	3642170	20.0
4H-Cyclopenta[def...	18.05	5.4	ng	986834	4	16.98	3642170	20.0
Phenanthrene, 2,5...	18.75	3.0	ng	538297	4	16.98	3642170	20.0
unknown18.82	18.82	5.2	ng	939276	4	16.98	3642170	20.0
11H-Benzo[b]fluorene	19.85	2.5	ng	728398	5	21.09	5818560	20.0
Benz[c]acridine	20.83	2.3	ng	668197	5	21.09	5818560	20.0
Benzo[e]pyrene	23.09	9.7	ng	1208930	6	23.28	2482630	20.0